INDEX OF AUTHORS AND PAPERS

Albertin, U.K. and Morrison, H.L., Current algebras and liquid helium 159 (1989) 188
Aslangul, C., Pottier, N. and Saint-James, D., Intermediate-time dynamics of a particle on a disordered tight-binding lattice: quantum dissipation versus disorder 159 (1989) 63

Banach, Z., On the mathematical structure of Eu's modified moment method 159 (1989) 343
Bandyopadhyay, U., see Gopala Rao, R.V. 159 (1989) 44
Boudh-Hir, M.-E., New developments for localized adsorption 159 (1989) 139
Brankov, J.G. and Priezzhev, V.B., Finite-size effects in a dimer model of crystallization 159 (1989) 386

Chatzidimitriou-Dreismann, C.A., On the linear response treatment of condensed matter absorption processes 159 (1989) 109
Cichocki, B. and Felderhof, B.U., Periodic fundamental solution of the linear Navier–Stokes equations 159 (1989) 19
Cruz Barrios, S. and De Toledo Piza, A.F.R., Functional mean field expansion for the many-body initial condition problem 159 (1989) 440

Dassen, G.L.M., Kooiman, A. and Van Leeuwen, J.M.J., One-dimensional interfaces 159 (1989) 91
Davies, B., On the spectrum of six-vertex corner transfer matrices 159 (1989) 171
De Toledo Piza, A.F.R., see Cruz Barrios, S. 159 (1989) 440
Dham, A.K., see Kuldip Singh 159 (1989) 369

Ebeling, W., Förster, A., Kremp, D. and Schlanges, M., Ionization kinetics in nonideal dense plasmas: ionization fronts 159 (1989) 285

Felderhof, B.U., Hydrodynamic interactions in suspensions with periodic boundary conditions 159 (1989) 1
Felderhof, B.U., see Cichocki, B. 159 (1989) 19
Förster, A., see Ebeling, W. 159 (1989) 285
Fülöp, A., see Tél, T. 159 (1989) 155

Galasiewicz, Z.M., Magnetic type "charge" for superfluid velocity v_s in ^{3}He-A and ^{3}He-B 159 (1989) 301
Gladkov, S.O., On some properties of dielectrics exposed to a light wave 159 (1989) 420
Gopala Rao, R.V. and Bandyopadhyay, U., Structural studies of alkaline earth metals in the one-component plasma approximation 159 (1989) 44
Gupta, S.C., see Kuldip Singh 159 (1989) 369
Gyorffy, B.L., see Marini Bettolo Marconi, U. 159 (1989) 221

Hadjiagapiou, S.A., Atom–atom coupling effect upon the interaction of single mode radiation with two-level atoms 159 (1989) 407

Kooiman, A., see Dassen, G.L.M. 159 (1989) 91
Kremp, D., see Ebeling, W. 159 (1989) 285
Kuldip Singh, Dham, A.K. and Gupta, S.C., Transport coefficients of multicomponent gas mixtures 159 (1989) 369

Le Caër, G., Damage spreading in a ferromagnetic cubic Ising system as a function of temperature and magnetic field 159 (1989) 329
Lekkerkerker, H.N.W., Contribution of the electric double layer to the curvature elasticity of charged amphiphilic monolayers 159 (1989) 319
Lu, P., Theory of superfluidity 159 (1989) 52

Marini Bettolo Marconi, U. and Gyorffy, B.L., On the statistical mechanics of interfaces and interfacial fluctuations 159 (1989) 221
Melsheimer, O., On the Boltzmann observable approach in quantum statistical mechanics 159 (1989) 123
Millat, J., Ross, M.J. and Wakeham, W.A., Thermal conductivity of nitrogen in the temperature range 177 to 270 K 159 (1989) 28
Morrison, H.L., see Albertin, U.K. 159 (1989) 188

Pop, A., see Vlad, M.O. 159 (1989) 239
Pop, A., see Vlad, M.O. 159 (1989) 256
Pottier, N., see Aslangul, C. 159 (1989) 63
Priezzhev, V.B., see Brankov, J.G. 159 (1989) 386

Ross, M.J., see Millat, J. 159 (1989) 28

Saint-James, D., see Aslangul, C. 159 (1989) 63
Schlanges, M., see Ebeling, W. 159 (1989) 285
Shen, H.H., Noise-induced transition and turbulent spectral invariants 159 (1989) 273

Tél, T., Fülöp, A. and Vicsek, T., Determination of fractal dimensions for geometrical multifractals 159 (1989) 155

Van Leeuwen, J.M.J., see Dassen, G.L.M. 159 (1989) 91
Velgakis, M.J., Site-diluted two-dimensional Ising models with competing interactions 159 (1989) 167
Vicsek, T., see Tél, T. 159 (1989) 155
Vlad, M.O. and Pop, A., Discrete random walk representations for continuum stochastic dynamics 159 (1989) 239
Vlad, M.O. and Pop, A., Step count number versus interaction time in jump Markovian dynamics 159 (1989) 256

Wakeham, W.A., see Millat, J. 159 (1989) 28

ANALYTIC SUBJECT INDEX

Absorption processes
– On the linear response treatment of condensed matter— - Chatzidimitriou-Dreismann 159 (1989) 109
Adsorption, localized
– New developments for localized adsorption - Boudh-Hir 159 (1989) 139
Alkaline earth metals
– Structural studies of—in the one-component plasma approximation - Gopala Rao and Bandyopadhyay 159 (1989) 44
Amphiphilic monolayers, charged
– Contribution of the electric double layer to the curvature elasticity of charged amphiphilic monolayers - Lekkerkerker 159 (1989) 319
Atom–atom coupling (see *Jaynes–Cummings model*) 159 (1989) 407

Boltzmann observable
– On the—approach in quantum statistical mechanics - Melsheimer 159 (1989) 123
Box counting method (see *Multifractals, geometrical*) 159 (1989) 155

Corner transfer matrix
– On the spectrum of six-vertex corner transfer matrices - Davies 159 (1989) 171
Crystallization, two-dimensional
– Finite-size effects in a dimer model of crystallization - Brankov and Priezzhev 159 (1989) 386
Current algebra (see *Liquid helium*) 159 (1989) 188
Curvature elasticity (see *Amphiphilic monolayers, charged*) 159 (1989) 319

Damage sreading (see *Ferromagnetic cubic Ising system*) 159 (1989) 329
Dielectrics–light interaction
– On some properties of dielectrics exposed to a light wave - Gladkov 159 (1989) 420
Dimer model (see *Crystallization, two-dimensional*) 159 (1989) 386
Disordered systems
– Intermediate-time dynamics of a particle on a disordered tight-binding lattice: quantum dissipation versus disorder - Aslangul et al. 159 (1989) 63
Dissipation, quantum
– Intermediate-time dynamics of a particle on a disordered tight-binding lattice: quantum dissipation versus disorder - Aslangul et al. 159 (1989) 63

Excitation energy spectrum (see *He II*) 159 (1989) 52

Ferromagnetic cubic Ising system
– Damage spreading in a—as a function of temperature and magnetic field - Le Caër 159 (1989) 329
Ferromagnetic phase boundary (see *Ising model, two-dimensional*) 159 (1989) 167
Finite-size effects (see *Crystallization, two-dimensional*) 159 (1989) 386

Fisk–Widom interface theory (see *Interfaces, one-dimensional*) 159 (1989) 91
Fluctuations, interfacial
– On the statistical mechanics of interfaces and interfacial fluctuations - Marini Bettolo Marconi and Gyorffy 159 (1989) 221
Fluid–crystalline solid system (see *Localized adsorption*) 159 (1989) 139
Fractal dimension determination (see *Multifractals, geometrical*) 159 (1989) 155

Gas mixtures, multicomponent
– Transport coefficients of multicomponent gas mixtures - Kuldip Singh et al. 159 (1989) 369
Gibbs relation, extended
– On the mathematical structure of Eu's modified moment method - Banach 159 (1989) 343

Hasimoto solution (see *Navier–Stokes equations, linear*) 159 (1989) 19
He II
– Theory of superfluidity - Lu 159 (1989) 52
Helium, liquid
– Theory of superfluidity - Lu 159 (1989) 52
– Current algebras and liquid helium - Albertin and Morrison 159 (1989) 188
Hydrodynamic interactions (see *Suspensions with periodic boundary conditions*) 159 (1989) 1

Initial condition problem (see *Many-fermion systems*) 159 (1989) 440
Interfaces
– On the statistical mechanics of—and interfacial fluctuations - Marini Bettolo Marconi and Gyorffy 159 (1989) 221
Interfaces, one-dimensional
– One-dimensional interfaces - Dassen et al. 159 (1989) 91
Ionization fronts (see *Plasma, dense non-ideal*) 159 (1989) 285
Ising model
– Damage spreading in a ferromagnetic cubic Ising system as a function of temperature and magnetic field - Le Caër 159 (1989) 329
Ising model, two-dimensional
– Site-diluted two-dimensional Ising models with competing interactions - Velgakis 159 (1989) 167

Jaynes–Cummings model
– Atom–atom coupling effect upon the interaction of single mode radiation with two-level atoms - Hadjiagapiou 159 (1989) 407
Jump Markovian dynamics
– Step count number versus interaction time in— - Vlad and Pop 159 (1989) 256
Jump processes, random
– Discrete random walk representations for continuum stochastic dynamics - Vlad and Pop 159 (1989) 239

Light absorption in dielectrics
– On some properties of dielectrics exposed to a light wave - Gladkov 159 (1989) 420
Linear response theory (see *Absorption processes*) 159 (1989) 109
Liquid helium
– Theory of superfluidity - Lu 159 (1989) 52
– Current algebras and— - Albertin and Morrison 159 (1989) 188
Liquid metals (see *Alkaline earth metals*) 159 (1989) 44
Liquids, polar (see *Absorption processes*) 159 (1989) 109

Localized adsorption
– New developments for— - Boudh-Hir 159 (1989) 139

Many-fermion systems
– Functional mean field expansion for the many-body initial condition problem - Cruz Barrios and de Toledo Piza 159 (1989) 440
Markovian models, jump
– Step count number versus interaction time in jump Markovian dynamics - Vlad and Pop 159 (1989) 256
Mean-field expansion (see *Many-fermion systems*) 159 (1989) 440
Modified moment method
– On the mathematical structure of Eu's— - Banach 159 (1989) 343
Monolayers, amphiphilic
– Contribution of the electric double layer to the curvature elasticity of charged amphiphilic monolayers - Lekkerkerker 159 (1989) 319
Multifractals, geometrical
– Determination of fractal dimensions for geometrical multifractals - Tél et al. 159 (1989) 155

Navier–Stokes equations, linear
– Periodic fundamental solution of the linear Navier–Stokes equations - Cichocki and Felderhof 159 (1989) 19
Navier–Stokes equations (see *Suspensions with periodic boundary conditions*) 159 (1989) 1
Nitrogen
– Thermal conductivity of—in the temperature range 177 to 270 K - Millat et al. 159 (1989) 28
Noise-induced transition (see *Turbulent flow*) 159 (1989) 273

One-component plasma approximation (see *Alkaline earth metals*) 159 (1989) 44

Particle on a disordered lattice
– Intermediate-time dynamics of a particle on a disordered tight-binding lattice: quantum dissipation versus disorder - Aslangul et al. 159 (1989) 63
Periodic solution (see *Navier–Stokes equations, linear*) 159 (1989) 19

φ^4 Hamiltonian (see *Interfaces*) 159 (1989) 221

Plasma, dense non-ideal
– Ionization kinetics in non-ideal dense plasmas: ionization fronts - Ebeling et al. 159 (1989) 285

Quantum dissipation
– Intermediate-time dynamics of a particle on a disordered tight-binding lattice:— versus disorder - Aslangul et al. 159 (1989) 63
Quantum kinetic theory (see *Plasma, dense non-ideal*) 159 (1989) 285
Quantum mechanical observable (see *Boltzmann observable*) 159 (1989) 123

Radiation–atom interaction
– Atom–atom coupling effect upon the interaction of single mode radiation with two-level atoms - Hadjiagapiou 159 (1989) 407
Random walk, discrete
– Discrete random walk representations for continuum stochastic dynamics - Vlad and Pop 159 (1989) 239
Reaction–diffusion equation (see *Plasma, dense non-ideal*) 159 (1989) 285

Sand box method (see *Multifractals, geometrical*) 159 (1989) 155
Site dilution (see *Ising model, two-dimensional*) 159 (1989) 167
Six-vertex corner transfer matrix
– On the spectrum of six-vertex corner transfer matrices - Davies 159 (1989) 171
Superfluid velocity (see *^{3}He, superfluid*) 159 (1989) 301
Superfluidity
– Theory of— - Lu 159 (1989) 52
Suspensions with periodic boundary conditions
– Hydrodynamic interactions in— - Felderhof 159 (1989) 1

Thermal conductivity of nitrogen
– —in the temperature range 177 to 270 K - Millat et al. 159 (1989) 28

^{3}He, superfluid
– Magnetic type "charge" for superfluid velocity v_s in ^{3}He-A and ^{3}He-B - Galasiewicz 159 (1989) 301

Transfer matrix (see *Six-vertex corner transfer matrix*) 159 (1989) 171
Transient hot-wire technique (see *Thermal conductivity of nitrogen*) 159 (1989) 28
Transport coefficients (see *Gas mixtures, multicomponent*) 159 (1989) 369
Turbulent flow
– Noise-induced transition and turbulent spectral invariants - Shen 159 (1989) 273